

# Advisory Council Meeting 10

December 9, 2014

Vermeer Corporation



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## Iowa Governors STEM Advisory Council

dedicated to building a strong STEM education foundation for all Iowans

# STEM Support of Computer Science

**Chairs:** Mark Gruwell and Ann Watts

**Working Group:**

Sanjeev Satturu  
Daniel Terrian  
Diana Gonzalez  
Craig Martinson  
Phillip Caffrey  
Marcia Elliott  
Marcy Seavey  
Pradeep Kotamraju  
Leann Jacobson  
Jeremy Varner  
Tim Kahl  
Adriana Donofrio  
Sheila Castenada  
Ben Schafer  
John Speer  
Christine Cournoyer

**Objective:** Set of recommendations for the Council to engage more Iowa youth in computer science, including programming/coding/ App development.

**The latest:**

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# High Speed Internet Access

Chairs: John Carver and Robert von Wolfradt

Working Group:

Josh Byrnes  
Robert Denson  
Dave Duncan  
Philip Groner  
Amy Kuhlers  
Karl Hehr,  
Galen Howsare  
Karen Randall  
Michael Sadler  
Larry Siegel  
Jeff Weld

**Objective:** Creation of a  
broadband expansion plan for  
Iowa.

**The latest:**

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# STEM Engagement of Counselors and Parents

**Chairs:** Rob Denson and Bill Ruud

**Working Group:**

Lori Wyatt  
Amanda DeWulf  
Steve Triplett  
Annie Howard  
Barb Tupper  
Teresa O'Meara  
Amy DeGroot Hammer  
Tonja Peebles  
Tim Bower  
Pat Barnes  
Tamara Trinder  
Laurie Phelan  
Mary Madison  
Mike Danilson

**Objective:** Set of recommendations for the Council to partner, support, and interface with school counselors for the benefit of STEM education.

**The latest:** (following slides)

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# GREATNESS STEMS FROM IOWANS

GOVERNOR'S STEM ADVISORY COUNCIL

**“STEM + Counselors” –**

**Co-Chairs: Bill Ruud & Rob Denson**

**CHARGE:** Identify ways and means for STEM Council to support and interface with school counselors across Iowa toward post-secondary and career coaching in the STEM spectrum of majors, jobs.



# The Who...and What

## Working Group:

Lori Wyatt  
Amanda DeWulf  
Steve Triplett  
Annie Howard  
Barb Tupper  
Teresa O'Meara  
Amy DeGroot Hammer  
Tonja Peeples  
Tim Bower  
Pat Barnes  
Tamara Trinder  
Laurie Phelan  
Mary Madison  
Mike Danilson

## Objective:

Develop a set of recommendations for the Council to partner, support, and interface with school counselors for the benefit of STEM education.

## **The Latest:**



A dynamic 1<sup>st</sup> meeting by conference call was held on Nov. 26, 2014.

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# 1<sup>st</sup>: GREAT Counselors who “GET IT”!



**Teresa Thompson, Counselor  
Pella High School**

**STEWIS**  
F 40M IOWANS

# What did we learn?

When the kid got on the 2x4 we learned that Pella High does not have an attorney on staff 😊



We found one kid we really want to reach.

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# 1<sup>st</sup> Meeting Outcomes

## Some Initial KEY Points

1. The Iowa High School Counselors Association is critical to STEM success.
2. Need better classroom materials, particularly at the elementary level.
3. Understand and Act on Business Perspective and Issues.
4. There are Program Issues.



## Action Items

- I. Prepare a counselor strand at Governor's Council March conference.
- II. More information is needed that will allow counselors to do a better job on career advising.
- III. More interaction by companies to help students, schools, parents, counselors, and companies identify the changing needs and how to fit with long term success.

# Next STEPS

**2<sup>nd</sup> Meeting, face-to-face, being scheduled for early 2015**

**We want to add a couple Principals to our Committee.**

**Further Explore Action Items and Report Progress:**

- **March 30, 2015,**
- **June 23, 2015.**
- **Final product due July 1, 2015.**

# STEM Seal of Approval/Endorsement/Recognition

Chair: Jordan Lampe

Working Group:

Kacia Cain  
Debi Durham  
Gary Scholten  
Carrie Rankin  
Teresa Wahlert  
Mark Putnam  
Adriana Donofrio  
Gail Wortmann  
Curt Simmons  
Kim Wayne  
Isa Zimmerman  
Teri Vos  
Camille Schroeder  
Craig Mohr

**Objective:** A protocol for the recognition/endorsement/seal of approval of non-STEM Council entities. THEN function as a screening group for applicants (tough to gauge – perhaps one per week at height).

## The Latest:

- 4 beta applications
- Finalized initial iteration of application and rubric
- Established initial vetting committee and approval process
- Working to update website
- Working on go-to market strategy (early Jan. release date)

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# STEM Active Learning Community

Chair: Deb Dunkhase

Working Group:

Deb Frazee  
Renee' Harmon,  
Michelle Rich  
Anne Shimerdla  
Catherine Swoboda  
Mary Trent  
Craig Johnson  
Jay Staker  
Indira Blazevic Karic  
John Paul Chaisson-Cardenas  
Sarah Derry  
Lynne Campbell  
Beth Hochstedler  
Dr. Rod Henshaw  
Teresa Wahlert

**Objective:** Maximize the engagement of Iowa's out-of-school STEM learning assets to contribute to Council goals.

## The Latest:

- Working with website updates
- Researching interactive communication tools for partners
- Designing a professional development opportunity for the STEM Summit focused on the Harvard-based "Dimensions of Success" STEM Program Quality Assessment Tool
- Creating a heat map of Iowa's STEM Active Learning Community Partners

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# STEM Business Engagement

Chair: Carrie Rankin

Working Group:

Pat Barnes

Jenny Becker

Kacia Cain

Michelle Higgins

Mary Lou Erlacher

Robin Habeger

Rachel Hurley

Tina Sherrill-Range

Sharon Rosenboom

**Objective:** Identify tactics for advancing partnerships of business and education to advance the Council's goals.

**The Latest:**

- Guide to Business Engagement
- Business Development Report

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# STEM Scale-Up

Chair: Sarah Derry (*Jeff Weld interim*)

## Review Team:

Pat Barnes  
Craig Martinson  
Tina Sherril-Range  
Scott Greenhalgh  
Rosemary Peck  
Karen Pattison  
Jordan Menning  
Ronda McCarthy  
Kim Post  
Margaret Notch  
Donovan Hill  
Carol Lafaver  
Mary Warren  
Adriana Donofrio  
Sharon Rosenboom  
Christine Sturgeon  
Camille Schroeder

**Objective:** Select the finest known STEM programs available and capable to be scaled up across Iowa

## The Latest:

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# STEM Ctrs. for Adv. Prof. Studies

**Objective:** Develop a process to identify, implement, evaluate, and support STEM-CAPS models in Iowa.

**Real-time update:**

- 6 applications representing 14 school districts received
- 5 programs (Bettendorf/PV, Cedar Rapids/College Community, Kirkwood/UI/ICCSD/Solon/Tipton/Clear Creek Amana/West Liberty/West Branch/Regina, Northeast, Rock Valley) awarded
- Total Budget: \$150,000 for implementation and support

**Chair: Kristine Bullock**  
**Selection team:**

Kim Sheppard  
Dalayne Williamson  
Jenny Becker  
Jay Staker  
Beth Hochstedler  
Tim Bower  
Joel Haack  
Lea Davidson  
Dawn Bowlus  
Pat Barnes  
Doreen Hayek  
Dave Wilkerson  
Michelle Gowdy  
Yvette McCulley  
Myron Linn  
Mary Lou Erlacher

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# Other Strategic STEM Fronts

Code Iowa: Angel Mendez

Website: Molly Faber (next slides)

Higher Education Network: Jeff Weld

# Current Homepage

With the fast growth & interest of STEM in Iowa, our current website needed some enhancements and improvements to meet the needs of our audience.

Our goal is to create a website that is interactive, engaging, user friendly, mobile friendly, and informative.

owa.gov | Agencies Online Services

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Advisory Council | Priorities | STEM Hubs | Students | Parents | Educators | Informal STEM | Corporate Partners | IMSEP

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## Greatness STEMs from hands-on learning.

MATHEMATICS universal language of nature.

### Governor's STEM Advisory Council

**News Flash!**

[CODE IOWA: Deadline EXTENDED to December 8 to become a Certified Code Iowa Partner.](#)

[STEM Council announces invitation for exemplary STEM programs to scale across Iowa](#)

[2014 STEM Education Award for Inspired Teaching — Nominations accepted until December 12.](#)

### Previous Announcements

[Office of the Governor: Branstad, Reynolds highlight success of STEM education in Iowa three years after initiative's launch](#)

[Iowa Governor's STEM Advisory Council launches Public Service Announcement](#)

### Iowa Governor's STEM Advisory Council Meetings

[Minutes, Agendas & Handouts](#)

### For more STEM Council information:

- [Iowa STEM Monitoring Report 2013-2014](#)
- [ALL STEM Council Newsletters](#)
- [ALL STEM Council News Releases](#)
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### Events and Conferences

DEC. 8, 2014 - DEADLINE to register to be a Certified Code Iowa Partner for the HOUR OF CODE Awards. For more information, go to: <http://iowastem.gov/code-iowa>.

DEC. 9, 2014 - Iowa Governor's STEM Advisory Council meeting, Pella, Iowa.

DEC. 12, 2014 - DEADLINE to nominate an educator for the STEM Education Award for Inspired Teaching. For more information and to nominate a teacher, go to <https://stemaward.fluidreview.com/>.

### Calendar

December 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	Dec 1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	Jan 1	2	3

[Google Calendar](#)

### Archives

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Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis sed magna.

## Science Technology Engineering Mathematics Greatness STEMs from Iowa

STEM is an acronym for Science, Technology, Engineering and Mathematics.

- Science—Study of the nature of the universe
- Technology—Applying information to the design of goods and services
- Engineering—Application of knowledge for the benefit of humanity
- Mathematics—Universal language of nature

The goal of increasing STEM interest and achievement is critical to ensuring Iowa's future by being a leader in education and workforce development. In fact, STEM will be a vital economic development advantage for quality job growth in our state, as STEM graduates are in great demand to meet current and future workforce needs.

Created with the goal of increasing STEM interest and achievement, the Iowa Governor's STEM Advisory Council is a collaboration of bi-partisan Iowa legislators, educators, business, nonprofit, students and families focused on increasing STEM opportunities and awareness in Iowa.

The Advisory Council is made up of leaders in higher education, business, pre-K through 12 education, as well as state and local government. The group is led by Lieutenant Governor Kim Reynolds and Governor Cate. Presided and CEO Mary Annemarie. Programs of the Council are delivered to Iowans through a statewide network comprised of regional hubs at universities and community colleges.

Please explore our site and tell us how you like it. We're always looking for feedback.

### LATEST NEWS

[Iowa's STEM education system is a model for the nation](#)  
[Iowa's STEM education system is a model for the nation](#)  
[Iowa's STEM education system is a model for the nation](#)

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### CALENDAR

**OCTOBER 2014**

Su	Mo	Tu	We	Th	Fr	Sa
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

### EVENTS

**26 OCT** **EVENT NAME**  
 Friday 1:00 pm

**26 OCT** **EVENT NAME**  
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**26 OCT** **EVENT NAME**  
 Friday 1:00 pm

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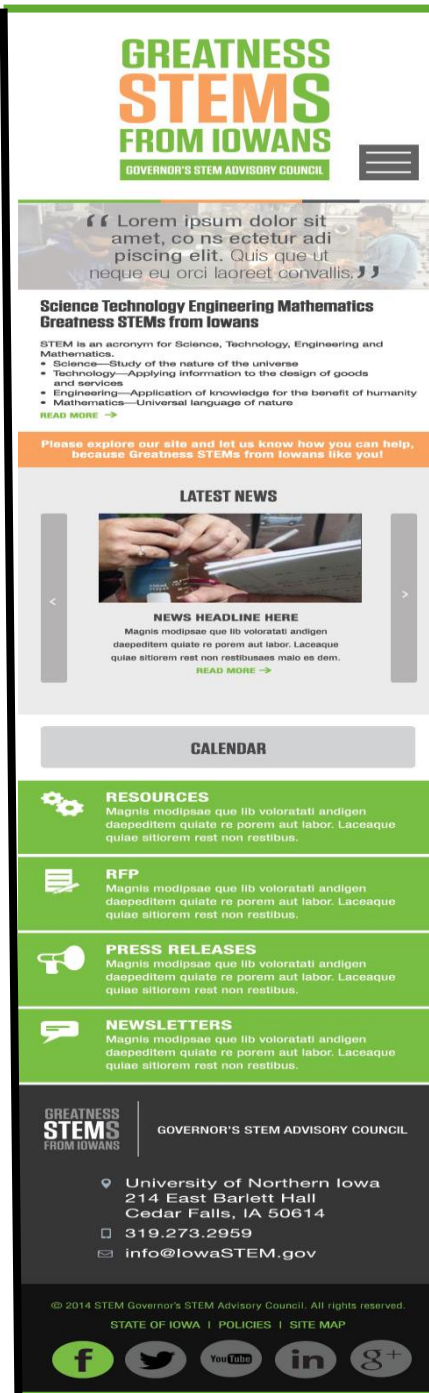
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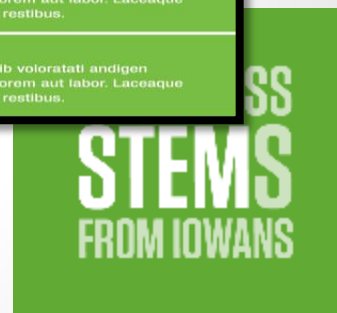
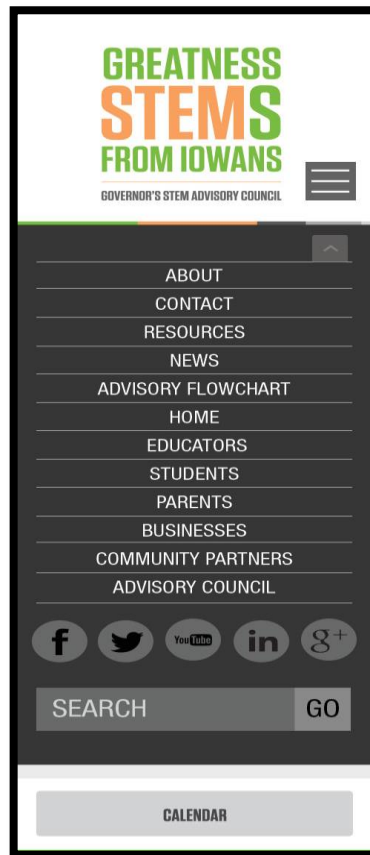
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#### Governor's STEM Advisory Council – Administrative Office

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**Phone:** 319.273.2959 | **Fax:** 319.273.2779  
**E-Mail:** [info@IowaSTEM.gov](mailto:info@IowaSTEM.gov) | **Web site:** [www.IowaSTEM.gov](http://www.IowaSTEM.gov)


Please fill in the form at the bottom of the page, and we will answer your question as quickly as possible. Use the message box if you would like to:

- provide information or suggestions to the Governor's STEM Advisory Council.
- volunteer in some capacity to help the Governor's STEM Advisory Council.
- learn more about the Governor's STEM Advisory Council or the Iowa Mathematics and Science Education Partnership (IMSEP).
- give feedback on the Web site.
- ask a general question.

[Apply to serve on the Governor's STEM Advisory Council](#) or any other Iowa Governor's Board or Commission.

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#### STAFF



**Jeffrey Weld, Ph.D**

Jeffrey Weld, Ph.D., is the Executive Director of the Governor's STEM Advisory Council and Associate Professor of Biology at the University of Northern Iowa (UNI) in Cedar Falls, Iowa. Jeff has directed the Iowa Governor's STEM Advisory Council since fall 2011, and the Iowa Mathematics & Science Education Partnership, the Council's operations arm, since 2008. He has been a member of the UNI Biology faculty since 2000. In 2007 Jeff was named the College Biology Teacher of the Year- 4-year institutions by the National Association of Biology Teachers. He has authored more than fifty research articles, essays, book chapters, and the textbook *The Game of Science Education* published in 2004, focusing on research into the barriers to innovative science teaching at the secondary and collegiate levels and how to overcome them. He is past President of the Iowa Science Teachers association and of UNI's chapter of Sigma Xi — the scientific research society. Prior to joining UNI, Jeff served on the faculty at Oklahoma State University after earning a

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Please contact us with any information or suggestions for the Governor's STEM Advisory Council, and about volunteer opportunities, resources to learn more about STEM in Iowa and any questions you may have.

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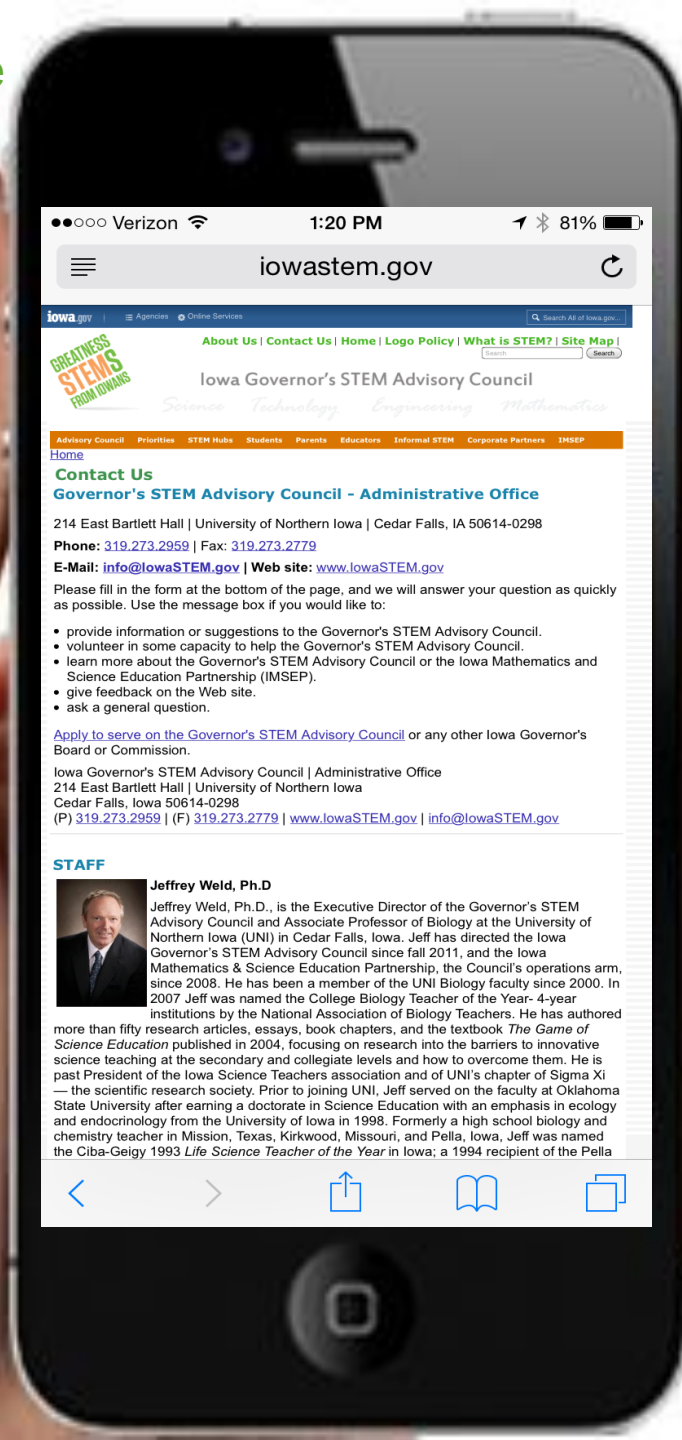
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
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
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
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


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